

Friday, June 18, 2021

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NPDES JUNE 2021

SDG ID: GCI51564 Sample ID#s: CI51564

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618 MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 18, 2021

SDG I.D.: GCI51564

Project ID: NPDES JUNE 2021

Client Id	Lab Id	Matrix
EFFLUENT	CI51564	WASTE WATER



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 18, 2021

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample Information

Matrix:

WASTE WATER

Location Code: BARNHARD

Rush Request: Standard

P.O.#: G12043

Custody Information

Collected by:

Analyzed by:

Received by: CP

_aboratory Data

CP see "By" below

06/09/21

Date

<u>Time</u> 7:00

06/09/21 17:41

SDG ID: GCI51564

Phoenix ID: CI51564

Project ID: NPDES JUNE 2021

Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Copper	0.030	0.003	mg/L	1	06/15/21	CPP	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	06/10/21 15:47	RVM/KB	DSM 5210B-11
B.O.D./5 day End Incubation					06/15/21 15:05	RVM/KB	DSM 5210B-11
C.O.D.	149	10	mg/L	1	06/15/21	QH	SM 5220D-11
Ammonia as Nitrogen	0.55	0.10	mg/L	2	06/15/21	KDB	E350.1
Nitrite-N	0.256	0.010	mg/L	1	06/09/21 22:46	AP	E353.2
Nitrate-N	6.33	0.20	mg/L	10	06/09/21 22:48	AP	E353.2
Nitrogen Tot Kjeldahl	6.73	0.20	mg/L	2	06/15/21	KDB	E351.1
Total Nitrogen	13.3	0.10	mg/L	1	06/15/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.504	0.010	mg/L	1	06/16/21	ARG/JR	SM4500PE-11
Total Suspended Solids	4.7	3.3	mg/L	0.7	06/11/21	MCH/QH	⊣ SM 2540D-11
Total Metals Digestion	Completed				06/11/21	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 18, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 18, 2021

QA/QC Data

SDG I.D.: GCI51564

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 579145 (mg/L),	QC Sam	ple No: (CI53072	(CI51564	!)								
ICP Metals - Aqueous													
Copper	BRL	0.0025	0.033	0.0320	3.10	95.5	101	5.6	106			80 - 120	20
Comment:													
Additional: LCS acceptance ran	ge is 80-12	20% MS a	cceptanc	e range 7	5-125%								



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 18, 2021

QA/QC Data

SDG I.D.: GCI51564

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 579714 (mg/L), (C Samp	ole No:	CI51340	(CI51564	4)								
Phosphorus, as P Comment:	BRL	0.01	2.32	2.14	8.10	99.4			96.2			85 - 115	20
Additional: LCS acceptance range	e is 85-11	5% MS	acceptance	e range 7	75-125%								
QA/QC Batch 579084 (mg/L), 0	2C Samp	ole No:	CI51410	(CI51564	4)								
Total Suspended Solids	BRL	2.5	<3.3	<3.3	NC	91.0						85 - 115	
QA/QC Batch 578890 (mg/L), 0	2C Samp	ole No:	CI51548	(CI51564	4)								
B.O.D./5 day	BRL	2.0	12	12	0	109			109			70 - 130	20
B.O.D./5 day GGA BOD						103						84 - 115	20
QA/QC Batch 579497 (mg/L), 0	C Samp	ole No:	CI51689	(CI51564	4)								
C.O.D. Comment:	BRL	10	25	23	NC	100			102			85 - 115	20
Additional: LCS acceptance range	e is 85-11	5% MS	acceptance	e range 7	75-125%								
QA/QC Batch 578775 (mg/L), 0	C Samp	ole No:	CI51436	(CI51564	4)								
Nitrate-N	BRL	0.02	< 0.02	< 0.02	NC	98.8			96.2			90 - 110	20
Nitrite-N	BRL	0.01	0.018	0.01	NC	101			100			90 - 110	20
QA/QC Batch 579416 (mg/L), 0	C Samp	ole No:	CI51235	(CI51564	4)								
Ammonia as Nitrogen	BRL	0.05	23.0	22.3	3.10	95.6			102			90 - 110	20
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	42.0	39.7	5.60	98.5			98.0			85 - 115	20
TKN is reported as Organic Nitrog	jen in the	Blank, I	CS, DUP	and MS.									

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

June 18, 2021

Friday, June 18, 2021

Sample Criteria Exceedances Report GCI51564 - BARNHARD

Criteria: None State: MA

State: MA

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

June 18, 2021 SDG I.D.: GCI51564

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

			;	당	AIN OF CL	CHAIN OF CUSTODY RECORD	CORD		Coolant: IPK A Temp A. 3 ° C	Pg of	
PHC Environme	PHOFINIX Environmental Laboratories, Inc	Inc.	4,	587 East Mic Email: i	East Middle Tumpike, P.O. Box Email: info@phoenixlabs.com Client Services (86	ddle Turnpike, P.O. Box 370, Mancheste irifo@phoenixlabs.com Fax (860) 64 Client Services (860) 645-8726	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	Fax: Phone	Fax: Phone: 413-624-3471 X3 Email: Ketth 44 Mwell \$	3471 × 3732 MWELL & SAM	404
Customer: Address:	13amhardt 247 man 2 (e) ran mass	124	01346		Project: Report to: Invoice to: QUOTE#		Jene 12mme) (\$c\$)	Project P.O. This s col Bott	This section MUST be completed with Bottle Quantities.	र्ड
Sampler's 1 Signature 1 Matrix Code: DM-EDrinking Wate RW-Raw Water SI B-Bulk L-Liquid X	Sampler's IC Internation - Identification Sampler's IC	- Identifica Irface Water oil SD=Solio	tion Date: 6	6 -9-21 ste Water pe OIL-Oil	l sts		LACE STREET	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0, 100, 100, 100, 100, 100, 100, 100, 1	602 4005 140	
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time	NAV NAV	00000 DV0000000000000000000000000000000	134	\$0,000 to 100 to	\$ 00 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	THE BUSINESS OF THE STATE OF TH	
10 CIC	TECHNAL PERSON	1 1	12-5-9	£ 4) /		
	ECEPOLY ECEPOLY		12-5-9	4/2					×		
	ERFLUNT	3	12-5-9	70~		-			*		, , , , , , , , , , , , , , , , , , ,
											.,
Relinquished by:	Accepted by			Date: 6-4-21	15/0 R	Ri	CT RCP Cert GW Protection SW Protection	MA	n MWRA eSMART S-1 10% CALC	Data Format Excel RF PDF GIS/Key Equis	,
Comments, Specia	Comments, Special Requirements or Regulations:	:5:		Turnaround Time: 1 Day* 2 Days* 3 Days* Standard		GA Leachability GB Leachability GA-GW Objectives	GA Mobility GB Mobility Residential DEC I/C DEC		S-1 GW-1 S-1 GW-2 S-1 GW-3 S-2 GW-1 S-2 GW-2 S-2 GW-3 S-3 GW-1 S-3 GW-2 S-3 GW-3 SW Protection	☐ Other Data Package ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other	
MS/MSD are conside.	"MS/MSD are considered site samples and will be billed as such in accordance with the prices aucited.	as such in ac	cordance	Other SURCHAR	Other	GB-GW Objectives	State where sa	State where samples were collected:	3 8	* SURCHARGE APPLIES	
					-					PEL-126 REV. 06/20	• 0